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Abstract

3 Mechanical controls for continuously varying the length of the
4 stroke of the valves in an internal-combustion engine and for
5 maintaining the valves constantly closed while the engine is in
6 operation while simultaneously varying how long the valve or
7 valves remain open, whereby the valves are actuated by rocker
8 levers that are in turn actuated by an angled lever, whereby the
9 positions of the levers are varied in order to vary the length
10 and duration of the stroke.

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12 The valves are actuated at low engine speeds by assigning a
13 specific narrow angle of rotation to each abbreviated stroke to
14 be established.

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16 Figure 1 illustrates valve stroke controls with an angled lever
17 (2) actuated by a cam (17) mounted on a lateral roller (3). In
18 the event of a misalignment, a planetary gear comes into play,
19 wherein a roller (9), mounted on the rocker lever (8) that
20 actuates the valve (1) acts a sun wheel, the angled lever (2)
21 acts as a planet wheel, and a setting lever (5) acts as a planet
22 bearing.

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